

TIMBER SALE PRESCRIPTION

				GENERAL						
Date				Forest, Minera	est, Mineral and Fire Management Unit					
08/01/2011				Baraga	Baraga					
Timber Sale Number (if applicable)				Sale Name (or	Sale Name (or prescription name)					
11-010-11-01										
				LOCAL CONTACT						
Name				Telephone						
Tom Seablom (906) 485-1966										
Email Address		.500								
seablomt@mic	higan.gov									
ig ig Map of Pro	ject Area Atta	ched								
				CAL DESCRIPTION						
LEGAL DESCRIPTION										
T52N R36W	Section(s) 3	Descripti	ion sese							
Year of Entry:	2011 Compa i	tment(s):	32 Stand N	umber(s): 4						
	THIS '	TIMBER S	ALE CONTRA	CT IS BASED ON TH	F FOLLOWING	ACREAGE				
						AGREAGE				
Estimated Acre	es: 37 Source	e: 🗌 OI	oxtimes GPS	Other						
Payment will be r	nade on the basis	of these es	stimated acres.							
				ATMENT & OBJECTIV	Έ					
STAND#	COVER TYPE	ACRES	ВА	TREATMENT		MANAGEMENT OBJECTIVE				
4	М9	37	146	Selection	Northern	Hardwoods				
				PRESCRIPTION						
				Background						
1. Initial	BA ranges fr	om 120 t	to 210 BA.	-	marked to	70-90 BA. Favored oak, white				
	nd hemlock wh					·				
2. An after marking cruise shows that it was marked down to 100 BA.										
			o Be Comp	leted on This P	rescription	L				
	sh plot cente									
2. Mark and	d record data	on "in	" trees.							
See crii	ising section	n for an	ecific inst	ructions						
Dec era	ibilig becero.	I TOT DP	CCIIIC IIID	i decient.						
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK ESTIMATED DATE										
DIVICTI	CEI ARATION VI	OKK TO E	SE DONE I III	OK 10 00MIKAOI W	Onn	LOTIMATED DATE				
N/A										
CONTRACT WORK CAN BEGIN										
_ , _										
CONTRACT WORK MUST BE COMPLETED BY Date 30 days from PO issue										

		PAINT LINE V	VORK						
☐ This is included in the bid ☐ This is not included in the bid									
Paint line work to be performed: (See attached map for locations)									
TYPE OF LINE WO	RK TO BE DONE	NOT APPLICABLE		PAINT COLOR					
Private boundary			Blue	Other:					
Sale boundary			Red	Other:					
Sale cutting unit			☐ Yellow	Other:					
Stand type line				Other:					
Exclusions to mark and why									
Standards for marking lines against private land									
		AREA CALCUL	ATION						
\square This is included in the bid	extstyle ext	t included in the	e bid						
UNIT METHOD				STANDARD	STANDARD				
Sale GPS [☐ String Cha	in Other							
Payment Unit GPS [String Cha	_							
Stand GPS [_								
Stand GPS String Chain Other Special Instructions:									
	TIMO	ER CRUISING SP	ECIFICATIONS						
$oxedsymbol{oxed}$ This is included in the bid $oxedsymbol{oxed}$	_ This is not	included in the) bid						
Required Basal Area Factor:	10 🗌 20	Other: 5							
		<u></u>							
Cruise Line Directions Systemat									
unit, unless otherwise approv DNR on a map.	ed by the I	ONR. Plot loc	ations must be	e GPS'ed and also p	provided to the				
CRUISING UNITS		NUMBER OF PLO	OTS PER ACRE	SPACING (CHAINS)				
North Twenty (Black Paint re		1		N/a X N/a	,				
South Twenty	/			N/a X N/a					
				X					
				X					
TOTAL NUMBER OF CRUISE P	OINTS	4(0						

Cruise Special Instructions:

Establish temporary plots. Plot center will be set with something like a wooden stake, re-bar, PVC pipe or some other approved device. PVC may work best as plot center staff can be placed inside the pipe. The center stake must stick out at least 4" above the ground, be flagged, painted, numbered and easy to see. Numbering will start with 1 and end with 20. Two additional flags should be placed overhead or nearby, with 'tails' at least 2' and numbered so the plot may be easily located.

The trees for harvesting have already been marked with orange paint and some of the marked trees have also been numbered (hereafter called pre-numbered trees). All trees, whether 'marked', 'marked & pre-numbered' or 'leave', that are 'in' using a Limiting Distance Table with a Basal Area Factor of 5, will be marked, numbered and measured. Start each point from North and go clockwise. Marking will consist of a horizontal line (about 6") at dbh and a tree number anywhere on the tree, but clearly visible from plot center which does not obscure other markings or numbers already on the tree. A 4.5' staff would be very useful in consistently and quickly identifying DBH. Tree numbering will start at 1 for each plot. Azimuth and distance to the center of the tree at the base from the plot center will be recorded along with species and dbh to the nearest 10^{th} inch (rounding down) with a d-tape. Also, record the tree as 'marked', 'marked & pre-numbered', or 'leave'. If the tree is 'marked & pre-numbered', record the pre-numbered number for the tree along with the new tree number. There can be no mistakes on 'in' and 'out' trees. When trees are near the edge of the stand, the 'walkthrough' method (Ducey et al 2004) will be used. If a tree is double counted using the 'walkthrough' method, then two numbers will be needed on the tree, e.g. 7 and 8 and the tree will be recorded twice on the plot, e.g. one record for tree 7 and one record for tree 8.

We need at least 25% or 1 out of every 4 trees as 'marked & pre-numbered'. If on the plot, there are less than 25% 'marked & pre-numbered' trees, then you will need to select one of the 'marked' trees and add unique numbers until you reach at least 25%. For example, for every 4 trees marked, there needs to be one pre-numbered tree or one unique numbered tree. For each 20 acre stand, start with the number 700 for the unique tree number. For example, if a plot has 6 'marked' trees and only one of the 'marked' trees is 'marked & pre-numbered', then an additional numbered tree would be added (6 divided by 4 = 1.5 numbered trees, round up to 2). Randomly select one of the 'marked' trees for numbering and paint the tree with a unique tree ID. To determine the tree or trees to number, use a random number table, dice, or other DNR approved method.

Stakes will be provided by the contractor. Aerosol paint will be supplied by the DNR. A different color paint will be used then the color used to mark the stand.

The North Twenty will require some additional work. Paint 'dots' were placed on the sawlog trees when the area was marked. The 'dots' need to be covered up. Any 'in' tree with 'dots' will have the 'dots' covered by a black or brown paint, probably a mixture of marking paint (not aerosol) supplied by the DNR. Cover the 'dots' in such a manner that no one can tell how many 'dots' were present. For example, on a one 'dot' tree, you may need to apply paint to a larger area then just the 'dot' so that it is not obvious that it was a one 'dot' tree.

Note that your tally card would have the following columns: Tree #, Species, DBH, Azimuth, Distance, Marked/Pre-number/leave (enter M for Marked, the pre-numbered number/unique tree number or L for Leave). Plot number could be a column or could be noted on the top of the tally card if one card were used per plot.

Tally sheets or an electronic data recorder will be provided by the contractor. The final product to the DNR will be in Excel, a hardcopy map and GPS plot locations.

	TIMBER MARKIN	G SPECIFICATIONS						
☐ This is included in the bid								
☐ Precise specifications to be delineated at pre-work meeting with DNR staff								
Total Merchantable Residual BA (Basal Area): (Minimum to Maximum)								
TREAT	MENT	NUMBER	SIZE					
Regeneration Gaps Per Acre Girdled Trees Per Acre	1							
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB					
Sawlogs								
Sawbolts								
Pulpwood								
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR					
Trees marked to leave			☐ Green ☐ Other					
Trees marked to cut			Orange Other					
		ITENSITIES						
SPECIES /	PRODUCT		RATIO					
		1:						
		1:						
1:								
RESTRICTIONS 1. Forest Management Division must to be able to identify who did what where on the timber sale.								
	n the Ishpeming Field Office. Ile must coincide with the DN lable on weekends or evening ed or cruised each payment ((in quarts). I plot in Excel.	R work schedule for paint supp gs.	bly.					